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1　<u>Simulation to support operational testing: a practical application</u>
　◆　Bradford S. Canova, Peter H. Christensen, Michael D. Lee, Bruce R. Tripp,
　　Michael H. Pack, David L. Pack
　　December 1999 WSC '99: Proceedings of the 31st conference on Winter
　　　　simulation: Simulation---a bridge to the future -
　　　　Volume 2,　Volume 2
　　Publisher: ACM
　　Full text available: 📄 pdf(158.38 KB) Additional Information: full citation, index terms

2　<u>A case study of verification, validation, and accreditation for advanced distributed simulation</u>
　◆　Ernest H. Page, Bradford S. Canova, John A. Tufarolo
　　July 1997 ACM Transactions on Modeling and Computer Simulation
　　　　(TOMACS),　Volume 7 Issue 3
　　Publisher: ACM
　　　　　　　　　　　　Additional Information: full citation, abstract,
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　　The techniques and methodologies for verification and validation of
　　software-based systems have arguably realized their greatest utility
　　within the context of simulation. Advanced Distributed Simulation (ADS),
　　a major initiative within the defense modeling ...

　　Keywords: IDEF modeling, advanced distributed simulation, aggregate
　　level simulation protocol, life cycle, validation and accreditation,
　　verification, wargame

3　<u>An integrated framework on mining logs files for computing system management</u>
　◆　Tao Li, Feng Liang, Sheng Ma, Wei Peng
　　August 2005 KDD '05: Proceeding of the eleventh ACM SIGKDD international
　　　　conference on Knowledge discovery in data mining
　　Publisher: ACM
　　　　　　　　　　　　Additional Information: full citation, abstract,
　　Full text available: 📄 pdf(894.29 KB)　　　　　references, cited by, index
　　　　　　　　　　　　　　　　　　　　　terms

　　Traditional approaches to system management have been largely based
　　on domain experts through a knowledge acquisition process that

translates domain knowledge into operating rules and policies. This has been well known and experienced as a cumbersome, ...

Keywords: event relationship, log categorization, system management, temporal pattern

4　Experimental evaluation of synchronization and topology control for in-building sensor network applications

W. Steven Conner, Jasmeet Chhabra, Mark Yarvis, Lakshman Krishnamurthy

September 2003 WSNA '03: Proceedings of the 2nd ACM international conference on Wireless sensor networks and applications

Publisher: ACM

Full text available: pdf(1.24 MB)　Additional Information: full citation, abstract, references, cited by, index terms

While multi-hop networks consisting of 100s or 1000s of inexpensive embedded sensors are emerging as a means of mining data from the environment, inadequate network lifetime remains a major impediment to real-world deployment. This paper describes several ...

Keywords: synchronization, topology control, wireless sensor networks

5　Proceedings of the 3rd international conference on Embedded networked sensor systems

Jason Redi, Hari Balakrishnan, Feng Zhao

November 2005 proceeding

Publisher: ACM

Additional Information: full citation, abstract

Welcome to the *3rd ACM SenSys Conference!* The process of putting together the SenSys technical program was a challenging one. There were 118 high-quality submissions this year with authors from 65 different institutions in at least 12 countries. ...

6　Exploiting mobility for energy efficient data collection in wireless sensor networks

Sushant Jain, Rahul C. Shah, Waylon Brunette, Gaetano Borriello, Sumit Roy

June 2006 Mobile Networks and Applications.　Volume 11 Issue 3

Publisher: Kluwer Academic Publishers

Full text available: pdf(415.19 KB)　Additional Information: full citation, abstract, references, index terms

We analyze an architecture based on mobility to address the problem of energy efficient data collection in a sensor network. Our approach exploits mobile nodes present in the sensor field as forwarding agents. As a mobile node moves in close proximity ...

Keywords: simulations, stochastic processes, system design

7　Design and implementation of a single system image operating system for ad hoc networks

Hongzhou Liu, Tom Roeder, Kevin Walsh, Rimon Barr, Emin Gün Sirer

June 2005 MobiSys '05: Proceedings of the 3rd international conference on Mobile systems, applications, and services

Publisher: ACM

Additional Information: full citation, abstract,

Full text available:

pdf(261.28 KB)   references, cited by, index terms

In this paper, we describe the design and implementation of a distributed operating system for ad hoc networks. Our system simplifies the programming of ad hoc networks and extends total system lifetime by making the entire network appear as a single ...

8 Capacity and performance analysis of distributed enterprise systems
James A. Aries, Subhankar Banerjee, Marc S. Brittan, Eric Dillon, Janusz S. Kowalik, John P. Lixvar
June 2002 Communications of the ACM,   Volume 45 Issue 6
Publisher: ACM

Additional Information: full citation, abstract, references, index terms

Full text available: pdf(97.58 KB) html(33.41 KB)

Analytic and simulation models enhance the reengineering and tuning of large client/server distributed systems.

9 A Simulation Tool for Evaluating Shared Memory Systems
Jie Tao, Martin Schulz, Wolfgang Karl
March 2003 ANSS '03: Proceedings of the 36th annual symposium on Simulation
Publisher: IEEE Computer Society

Additional Information: full citation, abstract, references, cited by, index terms

Full text available: pdf(171.82 KB)

This paper presents an execution-driven simulator calledSIMT, which models the parallel execution of applicationson multiprocessor systems with global memory abstractions.Based on Augmint, a simulation toolkit for Intelarchitectures, SIMT focuses on ...

10 Simulation-based early warning systems as a practical approach for the automotive industry
Ingo Hotz, André Hanisch, Thomas Schulze
December 2006 WSC '06: Proceedings of the 38th conference on Winter simulation
Publisher: Winter Simulation Conference

Full text available: pdf(411.99 KB) Additional Information: full citation, abstract, references

Simulation-based Early Warning Systems (SEWS) support proactive control of real material flow systems. In consequence of real or potential state changes, proactive control (unlike reactive control) makes foresighted and targetoriented acting possible. ...

11 Prototyping novel collaborative multimodal systems: simulation, data collection and analysis tools for the next decade
Alexander M. Arthur, Rebecca Lunsford, Matt Wesson, Sharon Oviatt
November 2006 ICMI '06: Proceedings of the 8th international conference on Multimodal interfaces
Publisher: ACM

Full text available: 📄 pdf(1.64 MB) Additional Information: full citation, abstract, references, cited by, index terms

To support research and development of next-generation multimodal interfaces for complex collaborative tasks, a comprehensive new infrastructure has been created for collecting and analyzing time-synchronized audio, video, and pen-based data during multi-party ...

Keywords: annotation tools, data collection infrastructure, meeting, multi-party, multimodal interfaces, simulation studies, synchronized media

12 Proceedings of the 38th conference on Winter simulation
L. Felipe Perrone, Barry G. Lawson, Jason Liu, Frederick P. Wieland, David Nicol, Richard Fujimoto
December 2006 proceeding
Publisher: Winter Simulation Conference
Additional Information: full citation, abstract

The Winter Simulation Conference (WSC) is recognized as the premiere international conference for simulation professionals in discrete and combined discrete-continuous simulation; WSC is always located in stimulating locations, in 2006 we are delighted ...

13 Sensing workload scheduling in hierarchical sensor networks for data fusion applications
Xiaolin Li, Hui Kang, Hsiao-Hwa Chen
August 2007 IWCMC '07: Proceedings of the 2007 international conference on Wireless communications and mobile computing
Publisher: ACM
Full text available: 📄 pdf(317.86 KB) Additional Information: full citation, abstract, references, index terms

We consider a sensing task scheduling problem in two-level hierarchical sensor networks. To minimize the execution time of a given task, we propose efficient scheduling strategies following the divisible load scheduling paradigm. The proposed scheduling ...

Keywords: data fusion, divisible load theory, hierarchical sensor network, sensing workload scheduling

14 Experimental evaluation of topology control and synchronization for in-building sensor network applications
W. Steven Conner, Jasmeet Chhabra, Mark Yarvis, Lakshman Krishnamurthy
August 2005 Mobile Networks and Applications, Volume 10 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: 📄 pdf(2.31 MB) Additional Information: full citation, abstract, references, index terms

While multi-hop networks consisting of 100s or 1000s of inexpensive embedded sensors are emerging as a means of mining data from the environment, inadequate network lifetime remains a major impediment to real-world deployment. This paper describes several ...

Keywords: energy conservation, performance evaluation, synchronization, topology control, wireless sensor networks

15

◈ TinyDB: an acquisitional query processing system for sensor networks

Samuel R. Madden, Michael J. Franklin, Joseph M. Hellerstein, Wei Hong

March 2005 ACM Transactions on Database Systems (TODS), Volume 30 Issue 1

Publisher: ACM

Full text available: 🔲 pdf(1.67 MB) Additional Information: full citation, abstract, references, cited by, index terms, review

We discuss the design of an acquisitional query processor for data collection in sensor networks. Acquisitional issues are those that pertain to where, when, and how often data is physically acquired (*sampled*) and delivered to query processing ...

Keywords: Query processing, data acquisition, sensor networks

16 Formal modelling and analysis of mission-critical software in military avionics systems

Zahid H. Qureshi

May 2007 SCS '06: Proceedings of the eleventh Australian workshop on Safety critical systems and software - Volume 60, Volume 60

Publisher: Australian Computer Society, Inc.

Full text available: 🔲 pdf(661.17 KB) Additional Information: full citation, abstract, references

A typical avionics mission system of a military aircraft is a complex real-time system consisting of a mission control computer, different kinds of sensors, navigation and communication subsystems, and various displays and stores; all interconnected ...

Keywords: avionics mission systems, formal methods, mission-critical software

17 Entertainment virtual reality system for simulation of spaceflights over the surface of the planet Mars

◈ Ricardo Olanda, Manolo Pérez, Pedr Morillo, Marcos Fernández, Sergio Casas

November 2006 VRST '06: Proceedings of the ACM symposium on Virtual reality software and technology

Publisher: ACM

Full text available: 🔲 pdf(769.38 KB) Additional Information: full citation, abstract, references, index terms

In recent years Virtual Reality technologies have enabled astronomers to recreate and explore three dimensional structures of the Universe for scientific purposes. Mars, due to its scientific interest, has been the focal point of numerous research projects ...

Keywords: entertainment virtual reality, immersive visualization systems, terrain representation

18 Panel discussion on distributed simulation and industry: potentials and pitfalls: distributed simulation and industry: potentials and pitfalls

Agostino Bruzzone, Simon J. E. Taylor, Richard Fujimoto, Boon Ping Gan, Steffen Straßburger, Ray J. Paul

December 2002 WSC '02: Proceedings of the 34th conference on Winter simulation: exploring new frontiers

Publisher: Winter Simulation Conference

Full text available: 🔲 pdf(185.77 KB) Additional Information: full citation, abstract,

references, cited by

This panel paper presents the views of five researchers and practitioners of <i> distributed simulation.</i> Collectively we attempt to address what the implications of distributed simulation are for industry. It is hoped that the views contained ...

19 Efficient pattern mining on shared memory systems: implications for chip multiprocessor architectures

Gregory Buehrer, Yen-Kuang Chen, Srinivasan Parthasarathy, Anthony Nguyen, Amol Ghoting, Daehyun Kim

October 2006 MSPC '06: Proceedings of the 2006 workshop on Memory system performance and correctness

Publisher: ACM

Full text available: 📄 pdf(232.73 KB) Additional Information: full citation, abstract, references, index terms

Frequent pattern mining is a fundamental data mining process which has practical applications ranging from market basket data analysis to web link analysis. In this work, we show that state-of-the-art frequent pattern mining applications are inefficient ...

20 A structured approach to instrumentation system development and evaluation

Abdul Waheed, Diane T. Rover

December 1995 Supercomputing '95: Proceedings of the 1995 ACM/IEEE conference on Supercomputing (CDROM) - Volume 00.   Volume 00

Publisher: ACM

Additional Information: full citation, abstract, references, cited by, index terms

Full text available: 📄 html(82.04 KB)

Software instrumentation is a widely used technique for parallel program performance evaluation, debugging, steering, and visualization. With increasing sophistication of parallel tool development technologies and broadening of application areas where ...

Keywords: instrumentation systems, software monitoring, parallel programming tools, parallel processing, modeling, perturbation, performance analysis

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